

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 March 2004 (25.03.2004)

PCT

(10) International Publication Number
WO 2004/024925 A2

(51) International Patent Classification⁷: C12N 15/62

(21) International Application Number:
PCT/DK2003/000585

(22) International Filing Date:
10 September 2003 (10.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
PA 2002 01328 10 September 2002 (10.09.2002) DK

(71) Applicant (for all designated States except US): NATIM-
MUNE A/S [DK/DK]; Fruebjergvej 3, DK-2100 Køben-
havn Ø (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): KONGERSLEV,
Leif [DK/DK]; Biskop Svanes Vej 39, DK-3460 Birkerød
(DK). WEILGUNY, Dietmar [DK/DK]; Lindevangen 61,
DK-2830 Virum (DK). MATTHIESEN, Finn [DK/DK];
Bækkeskovvej 64, DK-2700 Brønshøj (DK).

(74) Agent: HØIBERG A/S; St. Kongensgade 59A, DK-1264
Copenhagen K (DK).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK,
MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR,
TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
- of inventorship (Rule 4.17(iv)) for US only

Published:

- without international search report and to be republished upon receipt of that report

(48) Date of publication of this corrected version:

21 May 2004

(15) Information about Correction:

see PCT Gazette No. 21/2004 of 21 May 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COLLECTIN-COMPLEMENT ACTIVATING PROTEIN CHIMERAS

(57) Abstract: The present invention relates to a fusion protein capable of activating the complement system, the fusion protein comprising a first polypeptide sequence derived from a lectin-complement pathway activating protein or a functional homologue thereof; and a second polypeptide sequence derived from a collectin or a functional homologue thereof; wherein said complement activating protein is not a collectin. A preferred fusion protein comprises amino acids of the L-ficolin sequence of figure 1 and amino acids of the MBL sequence shown in figure 2. The fusion protein is suitable for use in treatment consisting of creation, reconstitution, enhancing and/or stimulating the opsonic and/or bactericidal activity of the complement system, i.e. enhancing the ability of the immune defence to recognise and kill microbial pathogens, and accordingly, the invention relates to a medicament comprising the fusion protein, methods for producing said fusion protein and methods for treating diseases, in particular infections.